

## English Translation of TW522319

### *Claims:*

1. A database for safely accessing to an internet through a wireless device, comprising:  
a database management program for establishing, inputting, amending and maintaining the data in database, and for encrypting the content of said database by the keyword set by the user and uploading to a WEB server for storage;  
a plurality of dynamic homepages stored in said WEB server for transmitting encrypted content of database in response to the request issued by browser of a mobile station or mobile calculating device; and  
a set of user end program executed by said mobile station or mobile calculating device for inquiring by the encrypted keyword set by the user and decrypting said keyword for downloading the content of database.
2. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said dynamic homepages are written in a language used in internet.
3. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said dynamic homepages are written in a language used in internet and irrelevant to execution platform.
4. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said set of user end program is written in a language used in internet.
5. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said set of user end program is written in a language used in internet and irrelevant to execution platform.
6. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said set of user end program is downloaded from said WEB server to a mobile station or mobile calculating device.
7. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said set of user end program should be installed completely in a mobile station or mobile calculating device before the encrypted data are transmitted by said WEB server,
8. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said mobile station is a cellular mobile phone.

9. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said mobile calculating device is a notebook computer having a modem or modem card or a personal digital assistant having a modem card, which is adapted to be connected to an internet.

10. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said encrypted keyword set by the user is a personal identification code with respect to a mobile station.

11. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said database management program is adapted to load a database set up by other personal computer database management system or data written in other format.

12. The database for safely accessing to an internet through a wireless device as defined in claim 1, wherein said WEB server comprises a database system for storing uploaded data.

13. A method for safely accessing to an internet through a wireless device, comprising;  
(a) encrypting the content of every field in database with a keyword set by the user without changing the structure of database;  
(b) uploading the encrypted database to a WEB server and storing the encrypted database in the database system of said WEB server;  
(c) inquiring by the encrypted keyword set by the user;  
(d) sending the inquiring result to said WEB server by a browser of wireless device;  
(e) inquiring me database system of said website of sever and sending the inquiring result;  
and  
(f) receiving the inquiring result by said browser of wireless device and decrypting the keyword set by the user,

*Brief description of the drawings:*

Fig. 1 is a brief figure of a database system of the present invention;

Fig. 2 is a flow chart of the present invention.

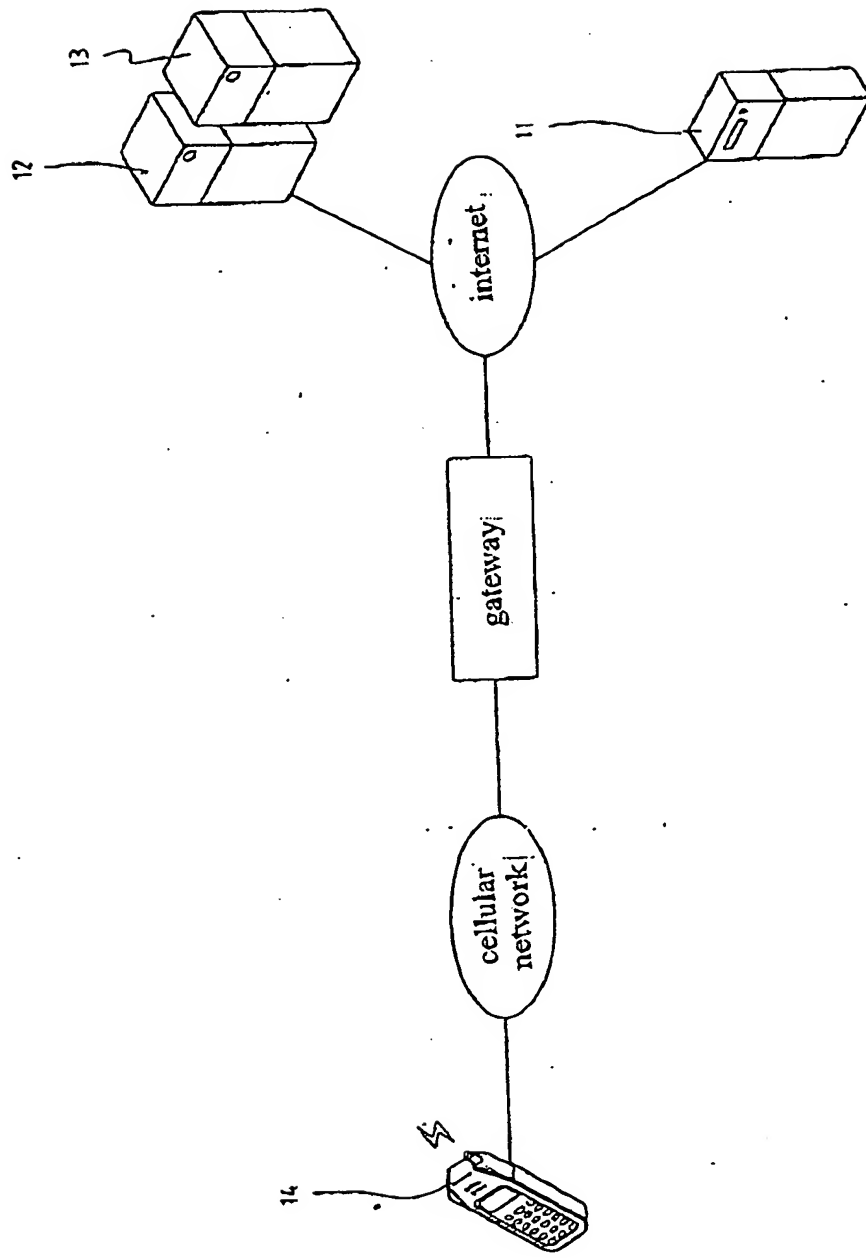


Fig.1

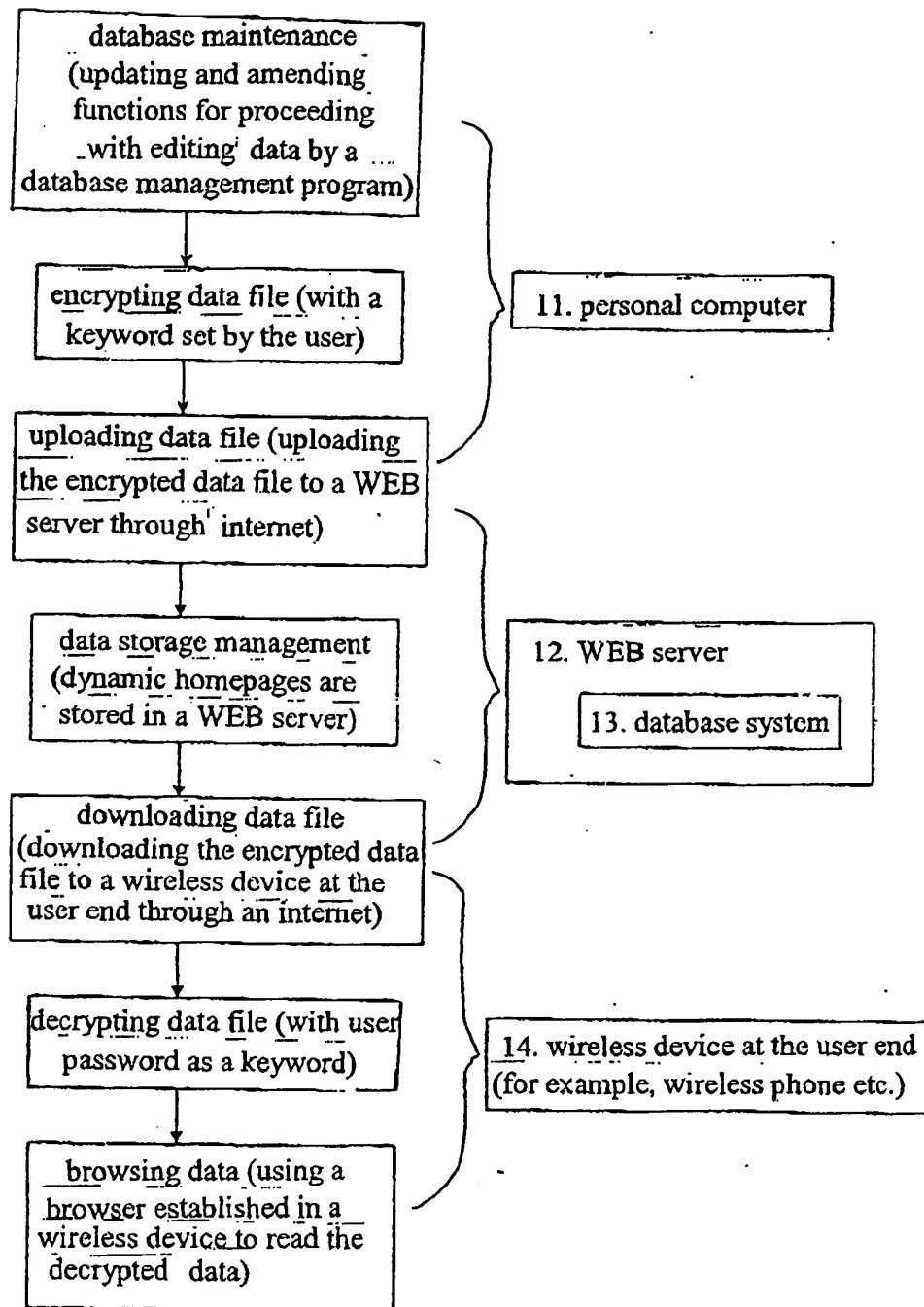


Fig.2



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發明

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[54]名稱：一種可利用無線裝置透過網際網路安全存取的資料庫系統及方法

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[57]申請專利範圍：

1.一種可利用無線裝置透過網際網路安全存取的資料庫系統，該資料庫系統包含有：

一資料庫管理程式，用來建立、輸入、修改及維護資料庫中的資料，並將該資料庫的內容以使用者自訂的關鍵字加密，並上載至網頁伺服器儲存；

複數個動態網頁存在該網頁伺服器中，用來傳送加密後的資料庫內容，以回應行動台或行動計算裝置的瀏覽器所發出的要求；以及，

一組使用者端程式，由該行動台或行動計算裝置的瀏覽器執行，用來以該使用者自訂的關鍵字加密查

詢，並以該關鍵字解密下載的資料庫內容。

2.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該動態網頁係用網際網路上使用的描述語言來撰寫。

3.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該動態網頁係用網際網路上使用的與執行平台無關的語言來撰寫。

4.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該組使用

者端程式係用網際網路上使用的描述語言來撰寫。

5.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該組使用者端程式係用網際網路上使用的與執行平台無關的語言來撰寫。

6.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該組使用者端程式是由該網頁伺服器下載至行動台及行動計算裝置。

7.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該組使用者端程式必須在該網頁伺服器傳送加密資料前，於行動台或行動計算裝置安裝完畢。

8.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該行動台指蜂巢式行動電話。

9.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該行動計算裝置更包含有裝數據機或數據卡的筆記型電腦或有數據卡的個人數位助理，即可連線上網際網路的筆記型電腦或個人數位助理。

10.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該使用者自訂的關鍵字以行動台而言為其個人辨識碼。

11.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該資料庫管理程式更可載入其他個人電腦資料庫管理系統所建立的資料庫及其他格式的資料。

12.如專利申請範圍第1項所述之一種可利用無線裝置透過網際網路安全存取的資料庫系統，其中，該網頁伺服器包含一資料庫系統，以儲存上載之資料。

13.一種可利用無線裝置透過網際網路安全存取的資料庫方法，該方法包含有下列步驟：

(a)以使用者自訂的關鍵字加密資料庫中每個欄位的內容，但不改變資料庫的結構；

(b)上載該加密過的資料庫至網頁伺服器，並儲存於該網頁伺服器的資料庫系統；

(c)以該使用者自訂的關鍵字加密查詢；

(d)以無線裝置的瀏覽器將該加密過的查詢送至該網頁伺服器；

(e)查詢該網頁伺服器的資料庫系統並將查詢結果送出；以及，

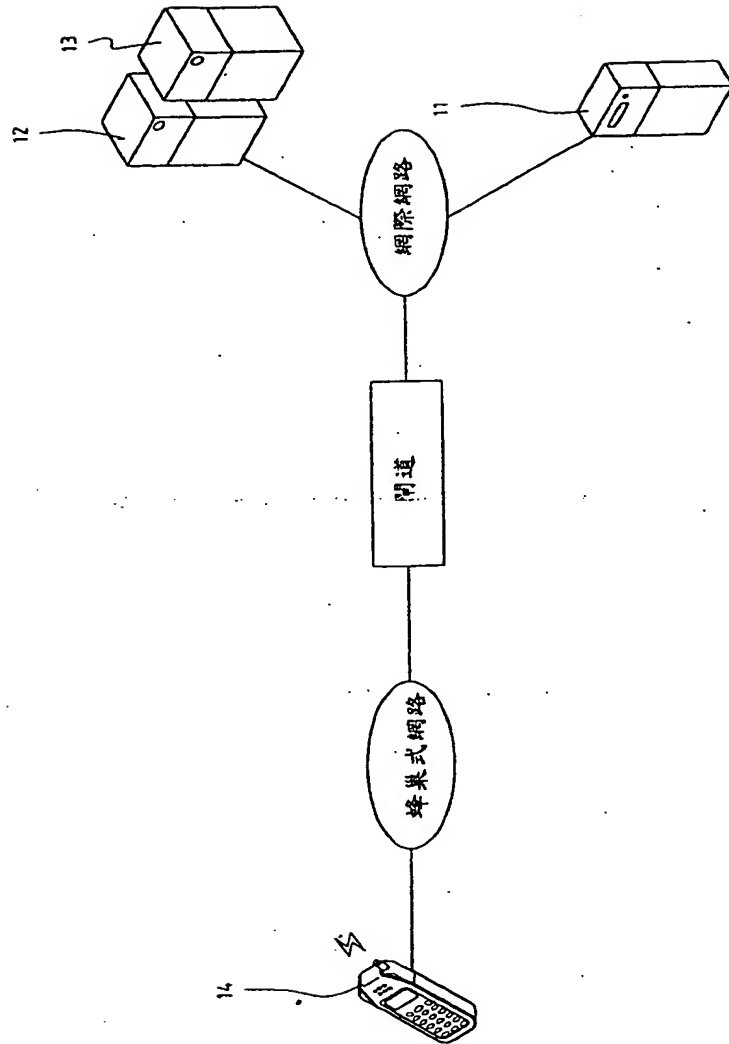
(f)以該無線裝置的瀏覽器接收該查詢結果，並以該使用者自訂的關鍵字解密。

圖式簡單說明：

圖一為本發明之資料庫系統概要圖。

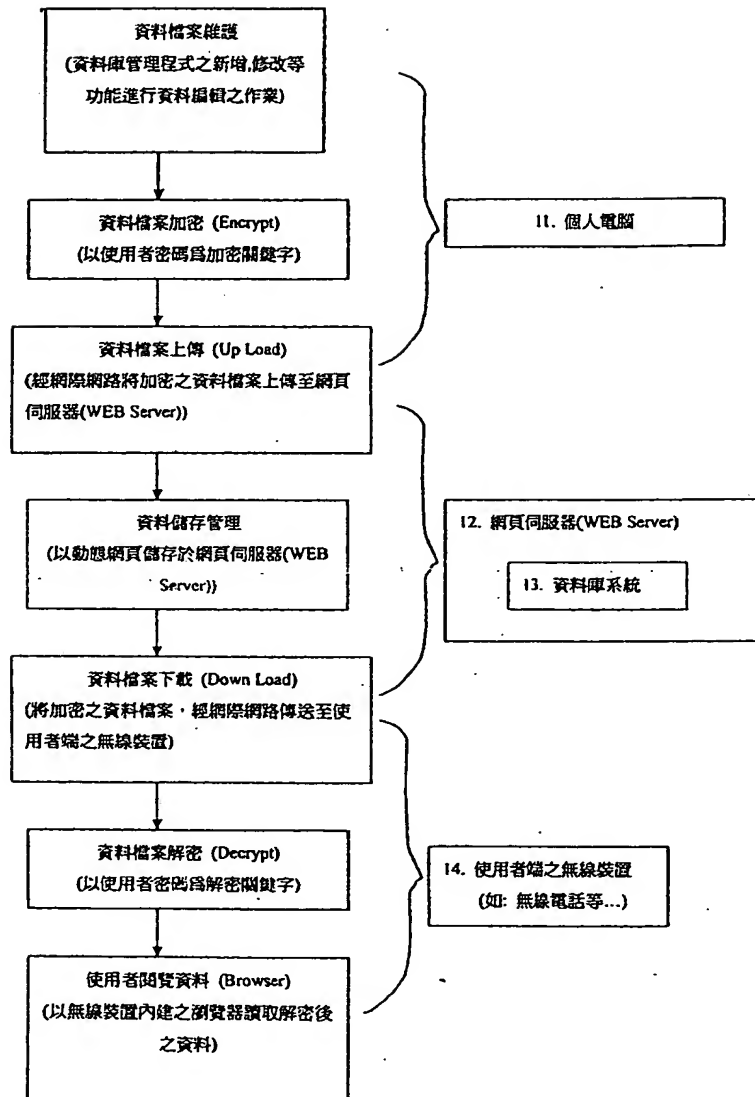
圖二為本發明之程式流程圖。

(3)



圖一

(4)



圖二



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